

REVISED HAPS A&P Exam Questions Examples on website March 2026

1. What cranial nerve innervates the eye muscle that moves the eye laterally?

- A. Abducens (CN VI)
- B. Facial (CN VII)
- C. Oculomotor (CN III)
- D. Trigeminal (CN V)
- E. Trochlear (CN IV)

Correct Answer: A

Addresses: Module H - Nervous System, Topic 11, Learning Outcome 2

2. If an individual is unable to flex their forearm, in what region of the CNS would you most likely find a damaged nerve cell body?

- A. Anterior (ventral) horn of the spinal cord
- B. Sympathetic trunk ganglion
- C. Posterior (dorsal) horn of the spinal cord
- D. Lateral horn of the spinal cord
- E. Posterior (dorsal) root ganglion

Correct Answer: A

Addresses: Module H - Nervous System, Topic 12, Learning Outcome 2

3. An individual experiences an injury to their anterior brachial region, resulting in extensive bruising and weakness in the muscles in this region. What muscle function is most likely compromised by the injury to the anterior brachial muscles?

- A. Abduction of the arm
- B. Extension of the arm at the shoulder
- C. Extension of the forearm at the elbow
- D. Flexion of the forearm at the elbow
- E. Flexion of the wrist and the fingers

Correct answer: D

Addresses: Module G - Muscular system, Topic 8, Learning Outcome 1

4. Red blood cells (erythrocytes) are placed in an isosmotic solution of urea, a penetrating solute. The cells will _____ because the urea solution is _____.

- A. Swell, hypertonic
- B. Swell, hypotonic
- C. Not change size, isotonic
- D. Shrink, hypertonic
- E. Shrink, hypotonic

Correct Answer: B

Addresses: Module C - Chemistry & Cell Biology, Topic 8, Learning Outcome 5 and 6

5. What structure conducts sperm from the epididymis to the ejaculatory duct?
- A. Duct of the seminal vesicle
 - B. Ductus (vas) deferens
 - C. Penile (spongy) urethra
 - D. Prostatic urethra
 - E. Seminiferous tubule

Correct Answer: B

Addresses: Module R - Reproductive System, Topic 2, Learning Outcome 3

6. Bob wants to determine what substance or combination of substances will be most efficient at carrying out fat digestion. He puts food containing fats plus the substance(s) being tested into test tubes, shakes vigorously, and then leaves the tubes to incubate at body temperature for 30 minutes. Which of the following tubes should show the most fat digestion?
- A. The tube containing bile salts and lipase.
 - B. The tube containing fats and lipase.
 - C. The tube containing fats, bile salts, and lipase.
 - D. The tube containing fats, peptidase, and bile salts.

Correct Answer: C

Addresses: Module N - Digestive System, Topic 12, Learning Outcomes 1 and 4

7. Slow twitch muscle fibers have more _____ and they rely more on _____ metabolism than fast twitch muscle fibers.
- A. mitochondria / anaerobic
 - B. capillaries / aerobic
 - C. myoglobin / anaerobic
 - D. myofibrils / aerobic

Correct Answer: B

Addresses: Module G - Muscular System, Topic 5, Learning Outcome 5

8. Which of the following ion movements would hyperpolarize a cell?
- A. Calcium entering the cell
 - B. Chloride leaving the cell
 - C. Potassium leaving the cell
 - D. Sodium entering the cell

Correct Answer: C

Addresses: Module C - Chemistry & Cell Biology, Topic 9, Learning Outcome 2

9. Epinephrine (adrenaline) will change cardiac output by which of the following mechanisms?

- A. It slows heart rate and increases force of contraction.
- B. It slows heart rate and decreases force of contraction.
- C. It increases heart rate and decreases force of contraction.
- D. It increases heart rate and increases force of contraction.
- E. It increases heart rate but has no effect on force of contraction.

Correct Answer: D

Addresses: Module K - Cardiovascular, Topic 11, Learning Outcomes 9 and 10

10. The plateau phase of the cardiac muscle action potential prevents which of the following in cardiac muscle?

- A. Elevated heart rate
- B. Summation
- C. Hyperpolarization
- D. A refractory period

Correct Answer: B

Addresses: Module K - Cardiovascular, Topic 7, Learning Outcomes 3 and 6

11. You are assessing an MRI of a knee joint. What anatomical structure would you see that connects the quadriceps femoris muscle to the patella?

- A. Bursa
- B. Ligament
- C. Synovial fluid
- D. Tendon
- E. Interosseous membrane

Correct Answer: D

Addresses: Module F - Skeletal System & Articulations, Topic 8, Learning Outcome 4

12. An individual is taking large amounts of cortisol to help treat a condition. What would you expect this person's plasma adrenocorticotropic hormone (ACTH) level to be?

- A. High
- B. Normal
- C. Low

Correct Answer: C

Addresses: Module J - Endocrine, Topic 9, Learning Outcome 1

13. At the end of inspiration, the air pressure inside the alveoli is _____ the alveolar air pressure at the end of expiration.

- A. greater than
- B. less than
- C. the same as

Correct Answer: C

Addresses: Module M - Respiration, Topic 3, Learning Outcome 5

14. In which part of the kidney does the tubule fluid become hyposmotic to the plasma?
- A. Proximal convoluted tubule (PCT)
 - B. Descending limb of the nephron loop (loop of Henle)
 - C. Ascending limb of the nephron loop (loop of Henle)
 - D. Collecting duct

Correct Answer: C

Addresses: Module P - Urinary, Topic 4, Learning Outcome 15

15. Which of the following changes to blood pressure and plasma osmolarity would you expect to observe in a person who has lost a substantial amount of blood (hemorrhage)?
- A. Decreased blood pressure and increased plasma osmolarity
 - B. Decreased blood pressure and decreased plasma osmolarity
 - C. Decreased blood pressure with no change in plasma osmolarity
 - D. Increased blood pressure and increased plasma osmolarity
 - E. Increased blood pressure and decreased plasma osmolarity

Correct Answer: C

Addresses: Module Q - Fluid/Electrolytes & Acid-Base Balance, Topic 3, Learning Outcomes 1 and 2